

Docket No. HUANG02
US App. No. 10/733,530

IN THE SPECIFICATION

Please amend the paragraph beginning at line 5 on page 1 as follows:

The present invention relates to an electroluminescent light source. In particular, it relates to an electroluminescent filament capable of emitting a plurality of colors and a method and a device for manufacturing the same.

Please amend the paragraph beginning at line 6 on page 3 as follows:

G. A polymer casing tube of different color is provided to cover the outer layer of a transparent or color polymer casing tube, its colors being in a helical or sectional pattern and it being in a filament form capable of simultaneously emitting a plurality of at least 2 to 8 colored lights, wherein:

Please amend the paragraph beginning at line 9 on page 7 as follows:

As shown in Fig. 6, the coreless orientation squeezing automatic device is a production line, mainly comprising: two sets of rotary fixed wheels 9, 9' in the front and rare, air-tight box having an air pressure device 10, mixture material 17' contained in the box, air-pressure device tube 11, a spherical fixing-center-member 12, outer ring 13 of the spherical fixing-center-member, sealing ring 14, pressure valve 15 of the spherical fixing-center-member, air-pressure device tube of pressure valve 16, 16', mixture material 17 in the spherical fixing-center-member 12 and a dry box 18.

Please amend the paragraph beginning at line 27 on page 8 as follows:

Acted upon by the dynamic traction wheel group 9' at the rare end, core wire 1 that has completed the initial material feeding moves on into spherical fixing-center-member 12; said spherical fixing-center-member 12 is a semi-spherical body made of special material, with its central hole large at its entrance and narrow at its exit which is slightly larger than core wire 1, with one end of bigger aperture being placed air-pressure valve 15 and sealing ring 14 and air-pressure pipes device tube of pressure valve 16, 16'; when core wire 1 is coated with material of enhanced density during the first feeding of material, its size is not accurate, and it is not dry, but

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viscous. It, under the effect of dynamic traction, goes into spherical fixing-center-member 12, is combined with mixture 17 in the tapered inner cavity of spherical fixing-center-member 12, and the density of the mixture is further enhanced under the effect of air pressure; core wire 1 keeps on moving under the effect of traction, core wire 1 is led out from the small end of the aperture of spherical fixing-center-member 12, jointly acted upon by spherical fixing-center-member 12 and pressure valve 15, the surface of core wire 1 is evenly coated with mixture material 17; then core wire 1 goes into dry box 18 to be dried so as to achieve the thickness as required by each process; the surface of contact between spherical fixing-center-member 12 and outer ring 13 of spherical fixing-center-member will be smooth for easy sliding, which greatly helps to get the even coat.

Please amend the paragraph beginning at line 20 on page 9 as follows:

As shown in Figs. 1 and 4, wire 1A then goes through the process to be wound round with transmission conductive wire 5 and coated with transparent polymer tube 6: at the front end of the mould head for discharging material and a polymer squeezing machine, a device (which is not shown in the figures and is a known technology) which can be rotary and lead in two conductive wires 5, 5' is arranged, the rotary power winds the wires around wire 1A, after being wound, it enters the mould head for discharging material, being subject to the traction of the squeezing machine, while winding the transmission conductive wire, it is covered with the transparent polymer casing tube to form wire 1A' (which is not shown in the figures and is a known technology).

Please amend the paragraph beginning at line 8 on page 10 as follows:

As shown in Figs. 4, 7 and 8, the process of the present invention for manufacturing helical, multi-colored polymer layer is as follows: after wire 1A' is prepared, the eight sets of material squeezing machines 20 on the composite wheel disk 19 are pre-heated to an appropriate temperature, program control stand 26 initiates the rotation of traction wheel set 22 through control wire 29; wire 1A, controlled by fixed leading wheel 21, goes through composite wheel disk 19, multi-heating-path mould head 24 and cooling groove 23 and moves in the direction indicated by the arrow; then, electric motor 27 is turned on through program control stand 26 and control wire 29 to activate the interlocking rotation of speed-regulating wheel set 28 and composite wheel disk 19, and program control stand 26 starts, through control wire 29, eight-

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channel moving contactor 25 and eight sets of material squeezing machine 20 on composite wheel disk 19; in the meantime, multi-colored polymer is squeezed out from different angles, and simultaneously discharged through multi-heating-path mould head 24 to cause it to surround wire 1A', when wire 1A' moves straight and composite wheel disk 19 rotates, a continuous, helical, multi-colored polymer layer is formed around wire 1A', and immediately goes into cooling groove 23 for cooling; after cooling, it forms a multi-colored filament with helical colors pattern 72'.

Please amend the paragraph beginning at line 16 on page 13 as follows:

When wire 1A' is prepared, squeezing machine sets 20 are heated to an appropriate temperature; control wire 29 initiates, through program control stand 26, the rotation of traction wheel set 22; wire 1A', controlled by fixed leading wheel 21, goes through composite wheel disk 19, multi-heating-path mould head 24, cooling groove 23 and moves in the direction indicated by the arrow; then program control stand 26 starts eight-channel moving contactor 25 and a certain set of material squeezing machine 20 on composite wheel disk 19 through control wire 29; a certain color polymer is squeezed out from multi-heating-path mould head 24, to surround wire 1A'; when a certain quantities of polymer is squeezed out, program control stand 26 orders said squeezing machine 20 to stop working through control wire 29, and meanwhile orders the next squeezing machine to initiate its operation and discharge polymer of another color; The polymer of the two colors connect each other; if it goes on like this, it is possible to discharge polymer of different colors, which is attached to wire 1A' after being discharged from multi-heating-path mould head 24; and immediately goes into cooling groove 23; after the cooling, it forms a continuously sectional and multi-colored filament 73'.